

GUIDELINES FOR A DEMONSTRATION OF A SCIENTIFIC PRINCIPLE (INCLUDES A WORKING MODEL)

Choose any scientific subject where a model, a drawing, or a demonstration would give you information on how that natural object works. Avoid commercial plastic models or replicas that don't have moving parts. Build YOUR OWN model out of inexpensive and easily available materials. As an alternative, you may use drawings or pictures rather than a 3D model. For example, a working model of a human lung could be made from an empty soda bottle and a balloon.

To begin, research your scientific subject and how it works. You may use library resources, internet, and experts. Decide how you could depict the subject using a model. Make a plan on paper of your model to get the best working device you can. Include your design notes in your project.

On your display, describe how your model works and how the device you've built resembles the actual natural object. Be prepared to demonstrate the working model for the judge. A description of your library research, your materials used, and a copy of the plans you drew to construct your model should also be included in your display. List any sources you found that helped you design your model. If your model is an invention or a new measurement tool, please explain in your display its function, why you invented this device, why it is necessary, and what problems it will solve.

NOTE: artistic renditions of natural objects or purchased plastic kits that don't DO anything, are not acceptable entries in this category of the Science Fair.

